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(11) Publication number:

0 303 223  
A3

(12)

## EUROPEAN PATENT APPLICATION

(21) Application number: 88112910.0

(51) Int. Cl. 5: A61K 31/545, C07D 501/46

(22) Date of filing: 09.08.88

(30) Priority: 10.08.87 GB 8718906  
14.09.87 GB 8721567  
26.10.87 GB 8725051  
18.12.87 GB 8729574  
22.01.88 GB 8801423

(43) Date of publication of application:  
15.02.89 Bulletin 89/07

(64) Designated Contracting States:  
AT BE CH DE ES FR GB GR IT LI LU NL SE

(88) Date of deferred publication of the search report:  
28.11.90 Bulletin 90/48

(71) Applicant: FUJISAWA PHARMACEUTICAL CO.,  
LTD.

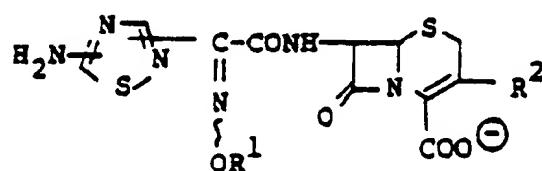
3, Doshomachi 4-chome Higashi-ku  
Osaka-shi Osaka 541(JP)

(72) Inventor: Sakane, Kazuo  
15, Azayamagata Mino  
Kawanishi-shi Hyogo 666-01(JP)  
Inventor: Yasuda, Nobuyoshi  
10-12, Kitashowa-cho  
Nishinomiya-shi Hyogo 662(JP)  
Inventor: Nishimura, Shintaro  
1-6-30, Gakuen-cho  
Settsu-shi Osaka 566(JP)

(74) Representative: Türk, Gille, Hrabal  
Brucknerstrasse 20  
D-4000 Düsseldorf 13(DE)

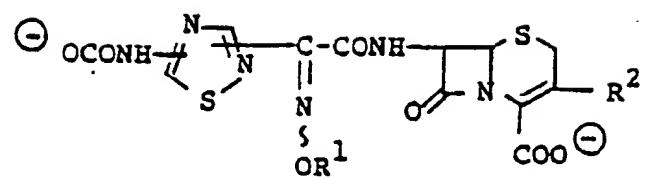
(54) Water-soluble antibiotic composition and water-soluble salts of new cephem compounds.

(57) A water-soluble antibiotic composition which comprises crystals of a cephem compound of the following formula:



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wherein R<sup>1</sup> is a residue of an aliphatic hydrocarbon which may have suitable substituent(s), and R<sup>2</sup> is a heteronio(lower)alkyl, or an acid addition salt thereof, and a pharmaceutically acceptable carbonic acid salt. The invention also relates to a salt comprising cation(s) and anion of the formula:



wherein R<sup>1</sup> is a residue of an aliphatic hydrocarbon which may have suitable substituent(s),  
R<sup>2</sup> is a heteronio(lower) alkyl, a process for preparing such salt and pharmaceutical composition comprising it.

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## EUROPEAN SEARCH REPORT

**Application Number**

EP 88 11 2910

DOCUMENTS CONSIDERED TO BE RELEVANT			CLASSIFICATION OF THE APPLICATION (Int. Cl. 4)
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	
A	FR-A-2 445 833 (SOCIETE CHIMIE ET BIOLOGIE) * Complete specification * ---	10-19	A 61 K 31/545 C 07 D 501/46
A	FR-A-2 124 499 (SQUIBB) * Complete specification * ---	1-9	
A	US-A-4 241 057 (KENZO ISHIZUKA et al.) * Complete specification * ---	1-9	
A	EP-A-0 099 553 (FUJISAWA) * Claims * ---	10-19	
A	US-A-4 161 527 (KENZO ISHIZUKA) * Complete specification * -----	1-9	
The present search report has been drawn up for all claims			TECHNICAL FIELDS SEARCHED (Int. Cl. 4)
Place of search		Date of completion of the search	Examiner
THE HAGUE		12-09-1990	LUYTEN H.
CATEGORY OF CITED DOCUMENTS			
X	particularly relevant if taken alone		
Y	particularly relevant if combined with another document of the same category		
A	technological background		
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